

CLAIMS

- Sub A1
1. ~~An anti-reflection material comprising a transparent substrate, a hard coat layer provided on one surface or two surfaces of said transparent substrate directly or via another layer, and an anti-reflection film having a lower refractive index than said hard coat layer further provided on a surface of said hard coat layer, wherein said hard coat layer consists of a polymer polymerizing at least a (metha)acrylate compound having a fluorene structure.~~
2. ~~An anti-reflection material as recited in claim 1, wherein said polymer is a copolymer copolymerizing a urethane(metha)acrylate compound.~~
- Sub A2
3. ~~An anti-reflection material as recited in claim 1 or 2, wherein said hard coat layer consists of a filler having a refractive index of 1.6 to 2.7.~~
4. ~~An anti-reflection material as recited in one of claims 1 to 3, wherein said anti-reflection film has a critical surface tension of 20 dyne/cm or less.~~
5. ~~A polarization film wherein a protecting layer is laminated on the opposite side of the surface of said transparent substrate of said anti-reflection material as recited in one of claims 1 to 4 in which said hard coat layer and said anti-reflection film are provided, via a polarization substrate.~~

6. An anti-reflection material comprising a transparent substrate, a hard coat layer provided on one surface or two surfaces of said transparent substrate directly or via another layer, and an anti-reflection film consisting of one layer or multi-layers having adjusted refractive index further provided on a surface of said hard coat layer, wherein said hard coat layer consists of at least a polymer polymerizing a urethane(metha)acrylate compound and ultrafine particles having a high refractive index.

7. An anti-reflection material as recited in claim 6, wherein said hard coat layer has a particle size of 30 nm or less.

8. An anti-reflection material as recited in claim 6 or 7, wherein said anti-reflection film has a critical surface tension of 20 dyne/cm or less.

9. A polarization film wherein a protecting layer is laminated on the opposite side of the surface of said transparent substrate of said anti-reflection material as recited in one of claims 6 to 8 in which said hard coat layer and said anti-reflection film are provided, via a polarization substrate.

10. An anti-reflection material comprising a transparent substrate, a hard coat layer provided on one surface or two surfaces of said transparent substrate directly or via another layer, and an anti-reflection film further provided on a surface of said hard coat layer, wherein said hard coat layer consists of at least radiation and/or thermosetting resin and titanium oxide ultrafine particle surface-treated by oxide or hydroxide of at least one element chosen from silicon, zirconium, aluminum, tin, and cesium.

11. An anti-reflection material as recited in claim 10, wherein said titanium oxide has a rutile-type crystal structure.

12. A polarization film wherein a protecting layer is laminated on the opposite side of the surface of said transparent substrate of said anti-reflection material as recited in claim 10 or 11 in which said hard coat layer and said anti-reflection film are provided, via a polarization substrate.